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Appl. No. : 10/826,059

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Applicant(s): Toshiyuki TAKABAYASHI et al.

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Examiner : Susan W. Berman

Docket No. : 04232/HG

For : ACTIVE RAY CURABLE INK-JET COMPOSITION, IMAGE FORMING METHOD USING THE SAME, INK-JET RECORDING APPARATUS, AND TRIARYLSULFONIUM SALT COMPOUND

Customer No.: 01933

DECLARATION UNDER 37 CFR 1.132

Toshiyuki TAKABAYASHI, declares that he is one of the inventors of the invention described and claimed in the above-referenced application.

He received a Bachelor's Degree in Chemistry from Kyoto University in March 1992. Since April of that year he has been employed by Konica Corporation, the Assignee of the above-identified application. He has been engaged in research and development in the field of photographic materials.

The experiments reported in the specification hereof (including results reported in Table 11 at page 134) and the following experiments, were conducted under his supervision and control.

Experiments

Following Example 6 in the present specification (page 113 et seq.), Ink Set 8 was modified so that the photo-induced acid generating agent was changed to (3-trifluoromethylphenyl)di(4-tolyl)sulfonium hexafluorophosphate which was the photo-induced acid generating agent employed in Examples 1 and 3 in JP '474, instead of PF_6^- salt of Formula (13).

Further, Samples 29-B (using OPP), 30-B (using PET), 31-B (using PVC), and 32-8 (using cast coated paper) were prepared employing radiation light source B, as the same as the other samples.

These new Samples 29-B through 32B were evaluated following the procedures used for the samples reported in the present specification, and the results added to the end of Table 11 (page 134), as follows:

Table 11

Sample No.	10 °C, 20% RH		25 °C, 50% RH		30℃、80%RH		Remarks
	Text quality	Color mixing (Bleeding)	Text quality	Color mixing (Bleeding)	Text quality	Color mixing (Bleeding)	
1	C	C	D	C	D	D	Comp.
2	B	D	D	D	D	D	Comp.
3	B	C	D	D	D	D	Comp.
4	B	C	C	D	C	D	Comp.
5	B	A	B	A	B	B	Inv.
6	A	B	A	B	B	B	Inv.
7	A	A	A	B	B	B	Inv.
8	A	A	A	B	B	B	Inv.
9	B	A	B	A	B	B	Inv.
10	A	B	A	B	A	B	Inv.
11	A	A	A	B	A	B	Inv.
12	A	A	A	A	A	A	Inv.
13	B	B	D	D	D	D	Comp.
14	B	B	C	D	D	D	Comp.
15	B	B	C	D	D	D	Comp.
16	B	B	C	D	C	D	Comp.
17	B	A	B	B	B	B	Inv.
18	B	B	B	B	B	B	Inv.
19	B	B	B	B	B	B	Inv.
20	A	A	A	A	A	A	Inv.
21	B	A	B	A	B	A	Inv.
22	A	B	A	B	A	B	Inv.
23	B	A	B	B	B	B	Inv.
24	A	A	A	A	A	A	Inv.
25	B	A	B	A	B	B	Inv.
26	B	B	B	B	B	B	Inv.
27	B	A	B	B	B	B	Inv.
28	A	A	A	A	A	A	Inv.
29	B	A	B	A	B	B	Inv.
30	A	A	A	A	B	A	Inv.
31	B	B	B	B	B	B	Inv.
32	A	A	A	A	A	A	Inv.
29-B	A	A	B	B	C	D	Comp.
30-B	A	A	C	C	C	D	Comp.
31-B	A	A	B	B	C	D	Comp.
32-B	A	A	C	B	C	D	Comp.

Referring to the above Table 11, it is one characteristic that noticeable differences between the comparative examples and the present invention (being differences of materials) appeared, especially under conditions of high humidity. In particular, the inventive samples, as compared with the new comparative test samples are surprisingly superior, especially with respect to the testing at 30°C and 80% relative humidity. (The typographical error in the heading of the last column of data in the corresponding Table presented in the specification has been corrected from "Text quality" to --Color mixing(Bleeding)-- consistent with the specification and the other corresponding data columns).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: February 2, 2007

Toshiyuki Takabayashi

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